THE CONTROL NETWORKS OF THE SATELLITES OF JUPITER
Merton E. Davies, The RAND Corporation, Santa Monica, CA 90406

Geodetic control networks are being computed photogrammetrically for the large satellites of Jupiter, using pictures from the Voyager 1 and 2 encounters. Control points have been identified on the satellites and their coordinates computed by single-block analytical triangulation. The data sets have been converted from the B1950 to the J2000 inertial coordinate system to be compatible with future flight missions.

## STATUS OF THE CONTROL NETWORKS

	<u>Io</u>	Europa	Ganymede	Callisto
Points	640	179	1884	818
Pictures, V1	209	53	152	159
V2	43	67	150	96
Measurements	11,164	3,847	25,780	14,628
Normal Equations	2,036	718	4,674	2,401
Overdetermination	5.48	5.36	5.52	6.09
Standard Error, µm	10.31	10.50	9.31	11.57